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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference JOH/iek		of Transmittal of International Search Report A/220) as well as, where applicable, item 5 below.							
International application No.	International filing date (day month yed	(Earliest) Priority Date (day month year)							
PCT/NO 00/00200	8 June 2000	8 June 1999							
Applicant									
UNIFOB, Stiftelsen Univers	sitetsforskning Bergen et a	ı1							
	peen prepared by this International Sea copy is being transmitted to the Interna	rching Authority and is transmitted to the tional Bureau.							
This international search report cons	sts of a total of 4 sheets.								
X It is also accompanied by	a copy of each prior art document cit	ed in this report.							
1. Basis of the report									
a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.									
the international search v to this Authority (Rule 23		tion of the international application furnished							
	and/or amino acid sequence disclosed in dout on the basis of the sequence listin								
contained in the internati	onal application in written form.								
filed together with the inte	ernational application in computer reac	lable form.							
furnished subsequently to	this Authority in written form.								
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the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.									
the statement that the infe listing has been furnished		e form is identical to the written sequence							
2. Certain claims were found	l unsearchable (See Box I).								
3. Unity of invention is lacki	ng (See Box II).								
4. With regard to the title,									
x the text is approved as su	bmitted by the applicant.								
the text has been establish	ned by this Authority to read as follows	:							
									
5. With regard to the abstract,									
the text is approved as su	bmitted by the applicant.								
101	month from the date of mailing of this	Authority as it appears in Box III. The sinternational search report, submit							
6. The figure of the drawings to be p	ublished with the abstract is Figure No								
as suggested by the applic		None of the figures.							
because the applicant fail	ed to suggest a figure.								
because this figure better	characterizes the invention.								

Form PCΓ/ISA/210 (first sheet) (July 1998)



International application No.
PCT/NO00/00200

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

The present invention describes methods, kits and compositions for the detection of ryanodine receptor antibodies in patient serum samples with the aid of N-terminal fragments of the receptor. The invention also describes a method for the manufacture of a pharmaceutical agent comprising such fragments for the prevention and/or treatment of the disease myasthenia gravis, and a method of myasthenia gravis prognosis.

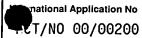
INTERNATIONAL SEARCH REPORT



A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G01N33/564 A61 C07K16/28 C07K14/435 A61K38/17 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) A61K IPC 7 G01N C07K Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Category ° Υ ASE MYGLAND ET AL: "Anti-cardiac 1-6.8 ryanodine receptor antibodies in thymoma-associated myasthenia gravis" AUTOIMMUNITY. vol. 17, 1994, pages 327-331, XP002901348 page 330 "Thymomas express ASE MYGLAND ET AL: 1-8 Α epitopes shared by the ryanodine receptor" JOURNAL OF NEUROIMMUNOLOGY. vol. 62, 1995, pages 79-83, XP002901349 page 80 page 82 -page 83 -/--Further documents are listed in the continuation of box C. Patent family members are listed in annex. IX ° Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the out. "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 1 5, 12, 00 31 October 2000 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Carl-Olof Gustafsson Fax: (+31-70) 340-3016

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	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Α	GEIR OLVE SKEIE ET AL: "Autoimmunity to ryanodine receptor and titin in myasthenia gravis is associated with GM allotypes" AUTOIMMUNITY, vol. 26, 1997, pages 111-116, XP002901350 the whole document	1-8
Α	ASE MYGLAND ET AL: "Ryanodine receptor autoantibodies in myasthenia gravis patients with a thymoma" ANN NEUROL, vol. 32, 1992, pages 589-591, XP002901351 the whole document	1-8
Y	CHEMICAL ABSTRACTS, vol. 130, no. 6, 8 February 1999 (1999-02-08) Columbus, Ohio, US; abstract no. 62650, LEONG, PENG ET AL: "The cytoplasmic loops between domains II and III and domains III and IV in the skeletal muscle dihydropyridine receptor bind to a contiguous site in the skeletal muscle ryanodine receptor" page 1; XP002901352 abstract & J.BIOL.CHEM., 273(45),29958-29964, 1998,	1-6,8
Y	CHEMICAL ABSTRACTS, vol. 129, no. 3, 20 July 1998 (1998-07-20) Columbus, Ohio, US; abstract no. 24678, LEONG, PENG ET AL: "A 37-amino acid sequence in the skeletal muscle ryanodine receptor interacts with the cytoplasmic loop between domains II and III in the skeletal muscle dihydropyridine receptor" XP002901353 abstract & J.BIOL.CHEM.,273(14), 7791-7794, 1998,	1-6,8
A	DE 197 22 317 C (BOEHRINGER INGELHEIM INT) 8 October 1998 (1998-10-08) page 7	
4	US 5 358 649 A (MACLENNAN DAVID H ET AL) 25 October 1994 (1994-10-25) column 25 -column 27	1-6,8



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DE	19722317	C1	08/10/98	EP	0984986 A	15/03/00
				WO	9854212 A	03/12/98
US	5358649	Α	25/10/94	AU	665178 B	21/12/95
				DE	69108568 D,T	14/12/95
				EP	0563144 A,B	06/10/93
				ΑT	120488 T	15/04/95
				ΑU	9103891 A	22/07/92
				CA	2064091 A,C	22/06/92
				CA	2079702 A	22/06/92
				DE	563144 T	03/02/94
				DK	563144 T	28/08/95
				ES	2072749 T	16/07/95
				GB	9027869 D	00/00/00
				ΙE	67816 B	01/05/96
				NZ	241112 A	27/09/93
			,	US	6001976 A	14/12/99
				WO	9211387 A	09/07/92
				ZA	9110087 A	28/10/92
				GB	9110865 D	00/00/00
				GB	9119250 D	00/00/00

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